

POPPER, E.; ROMAN, L.; CRACIUNEANU, R.; FLORIAN, E.

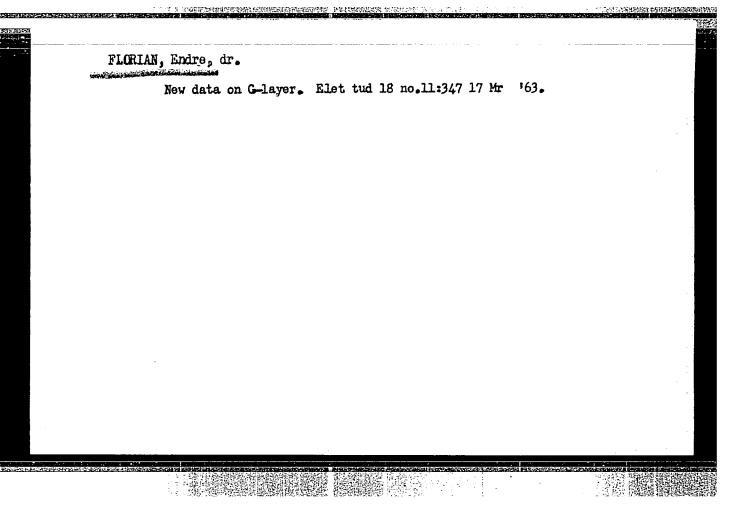
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Studying the behavior of the cations of the 3d analytical group towards a class of organic reagents. Rev chimie Min petr 13 no.6:372-374 Je 162.

1. Laboratorul de chimie amalitica Facultatea de Farmacie Institutul medico-farmaceutic, Cluj.

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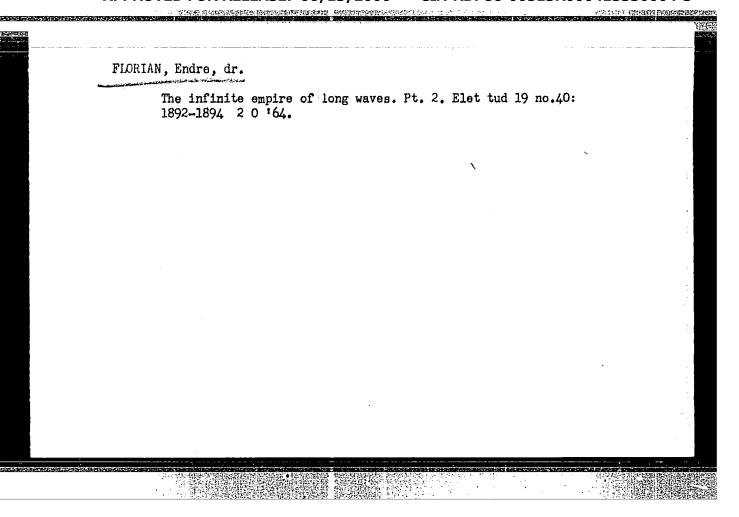
Geophysical effects of nuclear blasts. Elet tud 17 no.26: 803-807 1 J1 '62.



FLORIAN, Endre, dr.

Radio and thunderstorms. Elet tud 18 no.43:1346 27 0 '63.

# Effect of the February 15, 1961 solar eclipse on the ionosphere. Orsz meteor int besz tud kut 26:50-62 '62(publ.'63).



GROZEA, Gh., corespondent; FERARU, Ion, corespondent; BARBAT, Ioan, corespondent; FLORIAN, H., corespondent; IONESCU, Flavia, ing. corespondent; LAZANU, Gheorghe, corespondent

The workers received their new tasks with enthusiasm. Constr Buc 17 no.782:1 5 Ja 165.

RUMANIA

616.981.71

FLORIAN. I... of Hospital No 1 (Spitalul Nr 1) of the MTTc [Ministerul Transporturilor si Telecomunicatiilor; Ministry of Transports and Telecommunications], Bucharest.

"Vasculopathic Incidents in Patients with Positive Seroreactions for Rickettsia and Pararickettsia."

Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 17, No 6, 66, pp 457-463.

Abstract: Various forms of rickettsial and pararickettsial vasculopathies were observed in the internal diseases section of Bucharest's Railways Hospital No 1. Twelve case studies of various types are presented, with the pertinent clinical and laboratory data, and the favorable effect of intensive treatment with tetracycline is stressed.

Includes 9 references, of which one Russian and 8 French-language.

MIMMIN

VLAD, Gh., Capt, Dr., FIORIAN, I., Maj, Dr., and ALBU, St., Capt, Dr [affiliation not given]

"Observations on a Familial Epidemic of Trichinosis."

Bucharest, Revista Sanitara Militara, Vol 59, No 3, May-Jun 63, pp 501-507.

Abstract: A brief general description of trichinosis and a review of the literature followed by the case history of a familial epidemic affecting 5 persons in the commune of Avrig in Sibiu Raion. The clinical picture, results of laboratory analyses, complications and response to treatment are presented. Includes 3 clinical tables and 11 references, of which 1 Russian and 10 Rumanian.

1/1

25

NICOLAU, St. S.; SURDAN, C.; SARATEANU, D.; ATHANASIU, Pierrette; SORODOC, G.; POPESCU-DANESCU, Georgeta; BABES, V.; STEFANESCU, I.; ILIESCU, C.; RADESCU, R.; MALITCHI, E.; CADERE, T.; FLORIAN, I.; PARASCHIVESCU, N.; SETLACEK, D.; DUMITRESCU, St.; SILVIU DAN, S.

A study concerning the rickettsial or pararickettsial etiology of some cardiovascular diseases. Rev. sci. med. 8 no.3/4: 151-158 '63.

1. Member of the Academy of the R.P.R. (for Nicolau).

(RICKETTSIAL DISEASES) (ANTIBODIES)

(CARDIOVASCULAR DISEASES) (ENDOCARDITIS)

(PERICARDITIS) (HEART BLOCK) (CORONARY DISEASE)

(THROMBOPHLEBITIS)

L 41118-66 SWP(t)/ENZ/EWP(k) JD RU/0017/65/000/007/0372/0373 SOURCE CODE: ACC NR: AP6030205 AUTHOR: Oprea, O. (Doctor); Florian, I. (Engineer); Lapusan, A. (Physician); Giusca, R. ORG: [Oprea; Florian; Lapusan] "Tractorul" Works, Brasov (Usinele "Tractorul"); [Giusca] Geological Committee, Bucharest (Comitetul Geologic) TITIE: Method of determining the dimensions of silicogenous powders SOURCE: Metalurgia, no. 7, 1965, 372-373 TOPIC TAGS: metal casting, silicon ABSTRACT: A description of the method used at the Tractorul Works to determine the dimensions of the silicogenous powder in the molding sand. [The determination is based on the suction of a large volume of air and on suspension filtration by means of a device consisting of a series of crucibles with filtering plates. Orig. art. has: 2 figures. [Based on authors' Eng. abst.] [JPRS] SUB CODE: 13 / SUBM DATE: none / ORIG REF: 002 116 Card 1/1

LORIAN, J.			
Some shortcomings in the work of industrial management sections of industr	p. 286	(Chemik,	
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East European Vol. 3, No. 3	Money	יים ב	4, Uncl.
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Changes in regulations concerning workers' invertions. c. 21.

ACTA PHYSICA POLONICA Warszawa Vol. 9, No. 3, Nar. 1936.

East Europe n Accessions List (EEAL) Library of Congress Vol. 5, No. 11, August 1956.

Florian, J.

Florian, J. Technological construction; perfect construction. p. 2h.

Vol. 7, no. 1, Jan. 1957
STROJIRENSTVI
TECHNOLOGY
Czechoslovakia

So: East European Accessions, Vol. 6, May 1957
No. 5

FLORIAN, J .; ROMANIAK, R.

Inventive spirit in Poland. P. 155.

CHEMIK. (Ministerstwo Przemyslu Chemicznego i Stowarzyszenie Naukowe- Techniczne Inzynierow i Technikow Przemyslu Chemicznego) Warszawa. Poland. Vol. 12, no. 4, April 1959.

Monthly List of East Furopean Accessions (EEAI) LC. Vol. 8, no. 8, August 1959. Uncl.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413330004-3"

FLORIAN, J.; SOKOL, J.

Experiences abroad with conveyor-belt transportation in open-pit mines. p. 352.

UHIE. (Ministerstvo paliv) Praha, Czecholsovakia, Vol. 1, no. 10, Oct. 1959.

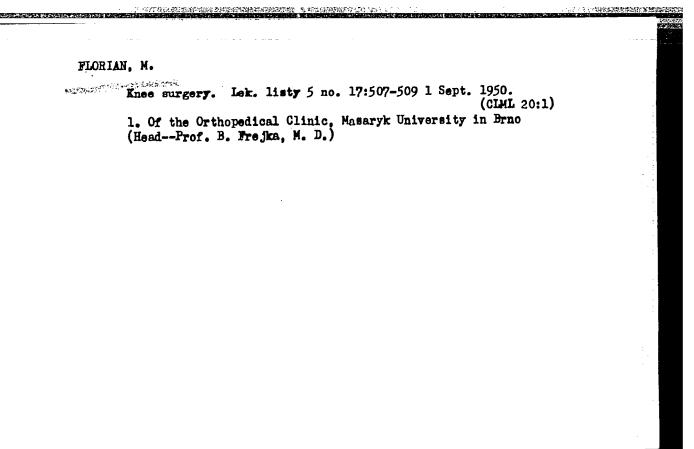
Monthly List of East European Accession (EEAI), IC Vol. 9, no. 2, Feb. 1960.

Uncl.

# FLORIAN, ladislav

Experiences in the socialist work brigade movement. Cs spoje 9 no.4: 30-31 Ag 164.

1. Regional Administration of Telecommunications, Brno.



FLORIAN, M.; KRATOCHVILA, J.

Prevention of faulty posture in special physical training classes in schools. Acta chir. orthop. trauma. Cech. 29 no.1:25 F 62.

1. Ortopedicke oddeleni OUNZ v Trebici, prednosta MUDr. M. Florian.

(POSTURE in inf & child)
(PHYSICAL EDUCATION AND TRAINING)

### FLORIAN, M.; VACHAL, K.

Damage to the ulnar nerve by a freely movable body in the sulcus nervi ulnaris. Acta chir orthop traun cech 30 no. 1: 54-57 F 163.

1. Ortopedicke oddeleni OUNZ v Trebici, vedouci MUDr. M. Florian.

(ULNAR NERVE)

FLORIAN, M.Dr.; KRATOCHVILA, J., prof.

Dorsolumbar kyphosis - outline of practical exercises. Acta chir. orthop. traum. cech. 22 no.1-2:13-17 Feb 55.

1. Z orthoped. cdd. CUNZ, Trebic, predn: primar dr. M.Florian. (KIPHOSIS sersolumbar, exercise ther.)
(MIRCISE THERAPT, in various diseases kyphosis, dorsolumbar)

# FLORIAN, Mircea, ing.

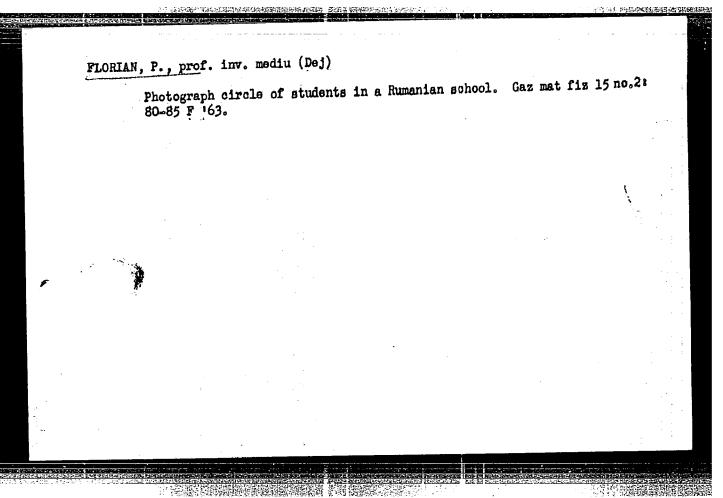
Socialist competition on the technical services, too. Munca sindic [7] no.1:11-14 Ja 163.

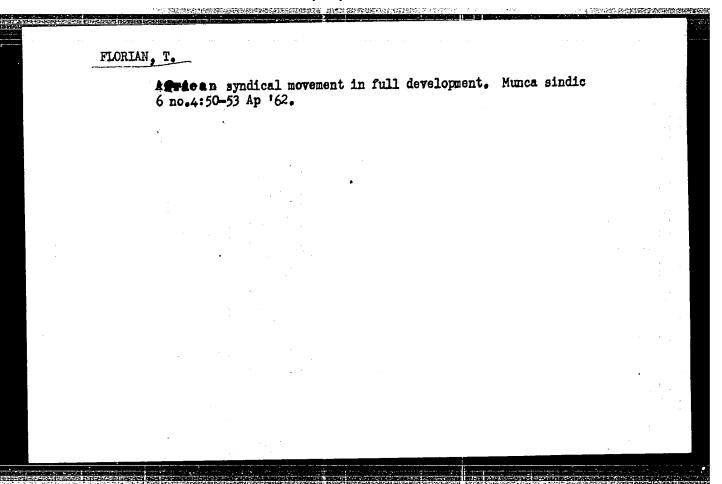
1. Vicepresedinte al comitetului sindicatului uzinele "Independenta", Sibiu.

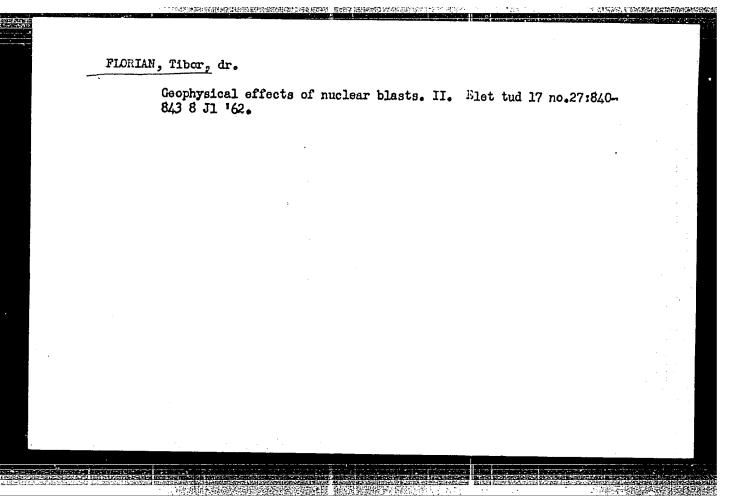
FIORIAN, Petru, prof. (Dej); MARUSTERU, St., (Baia Mare); HERLING, C., student; PIRSAN, L.C., student (Bucuresti); IONESCU-TIU, C.; COSTACHESCU, C.V.; LAMBA, Stelian (Constanta); LIVIU, Petre (Pucioasa); STRATESCU, Ion, student; BRINZANESCU, V., elev (Pucioasa); KLIM, Bratu, student (Bucuresti); TEMPEANU, C. (Constanta); KLIM, Bratu, student (Brasov); MUNTEANU, Valentin (Hunedorara); CALINESCU, Aurelian (Brasov); MUNTEANU, Valentin (Cluj); OPREA, Miron (Ploiesti); MIHAILEANU, N.; TIGANOIU, Al., inginer; Buicliu, Gh.; POPA, Eugen I. (Iasi)

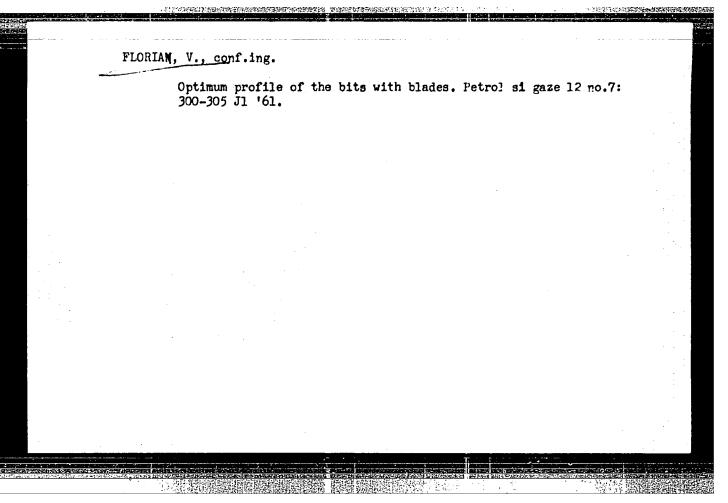
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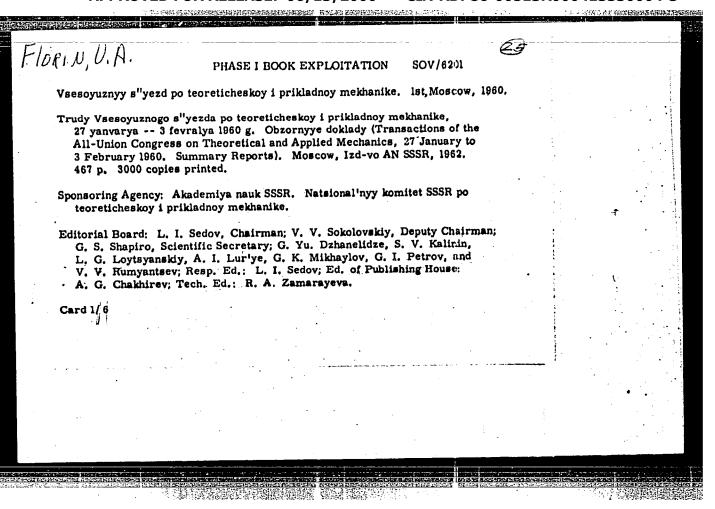
1. Institutul Politehnic Bucuresti (for Herling).











SOV/6201 Transactions of the All-Union Congress (Cont.) PURPOSE: This book is intended for scientific and engineering personnel who are interested in recent work in theoretical and applied mechanics. COVERAGE: The articles included in these transactions are arranged by general subject matter under the following heads: general and applied mechanics (5 papers), fluid mechanics (10 papers), and the mechanics of rigid bodies (8 papers). Besides the organizational personnel of the congress, no personalities are mentioned. Six of the papers in the present collection have no references; the remaining 17 contain approximately 1400 references in Russian, Ukrainian, English, German, Czechoslovak, Rumanian, French, Italian, and Dutch. TABLE OF CONTENTS: SECTION I. GENERAL AND APPLIED MECHANICS Artobolevskiy, I. I. Basic Problems of Modern Machine Dynamics Bogolyubov, N. N., and Yu. A. Mitropol'skiy. Analytic Methods of the Theory of Nonlinear Oscillations

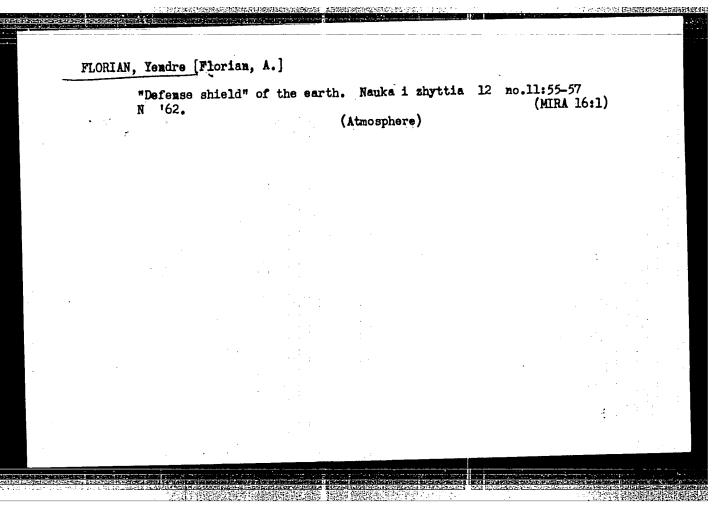
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Kachanov, L. M. On Some Variational Principles and Methods in the Theory of Plasticity	358	
Kupradze, V. D. The Singular Integral Equation Method in the Spatial Theory of Elasticity	374	:
Rabotnov, Yu. N. Creep	384	
Florin, V. A. Present State and Future Problems in the Mechanics of Soils	396	
Sherman, D. I. Two- and Three-Dimensional Problems in the Static Theory of Elasticity	405	
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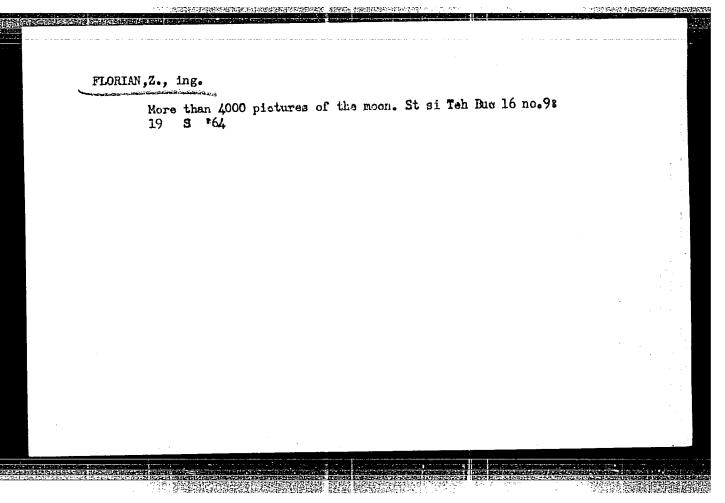
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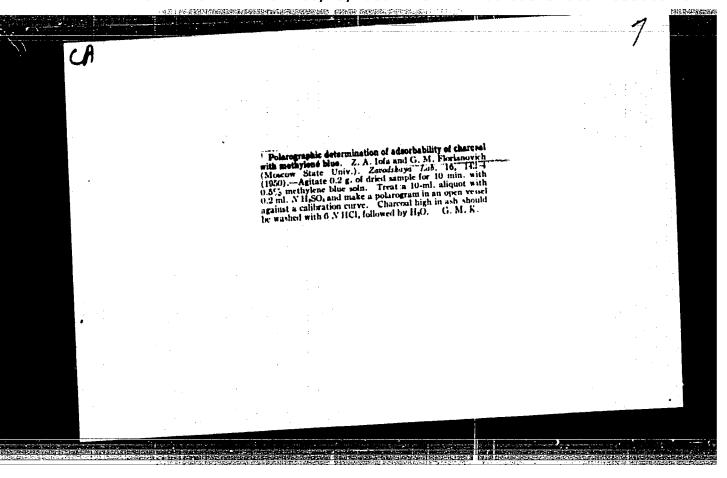
Improving the mechanical drilling speed by tangential washing of roller hits. Petrol si gaze 12 no.8:348-352 Ag %61.

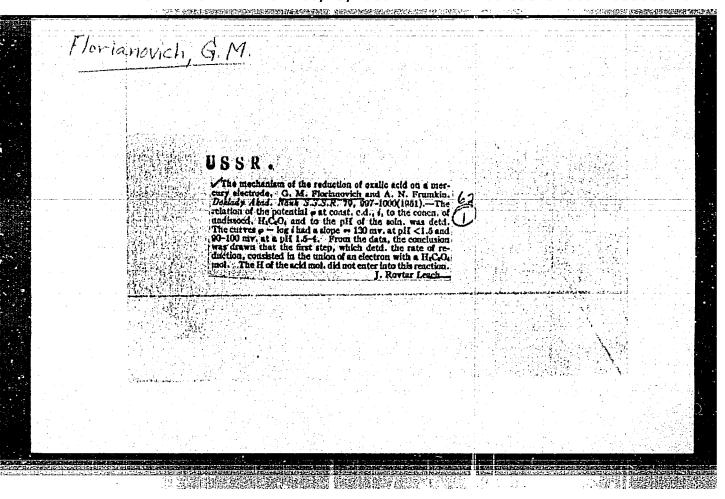
FLORIAN, V., conf. ing.; BANCIU, I., lector ing.

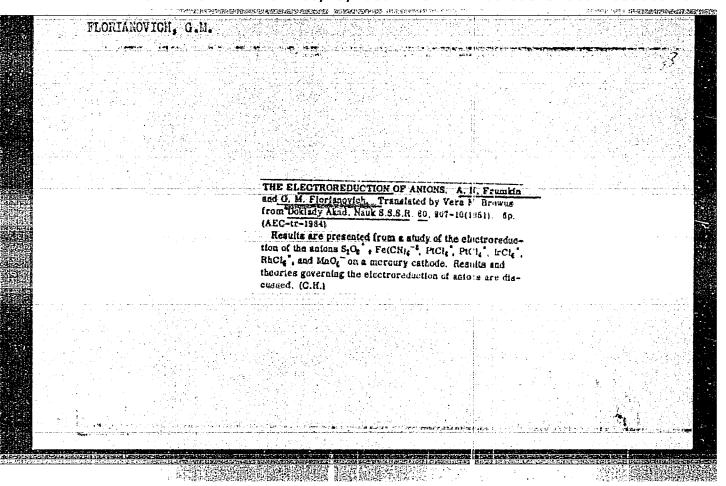
Improving the mechanical drilling speed by tangential washing of roller bits. Petrol si gase 12 no.8:348-353 Ag '62.











FLORIANOVICH, G. M.

Defended his candidates dissertation in the <u>Chemistry Faculty</u> of Moscow State University on 11 February 1952.

Dissertation: "Electroreduction of Anions on a Mercury Cathode."

SO: Vestnik Moskovskogo Universiteta, Seriya Fiziko-Matematicheskikh i Yestestvennykh Nauk, No. 1, Moscow, Feb 1953, pp 151-157: transl. in W-29782, 12 April 54,

# FLORIANOVICH, G.M

USSR/ Chemistry - Physical chemistry

Card 1/2 Pub. 147 - 11/21

Authors

: Florianovich, G. M., and Frunkin, A. N.

Title

: Electro-reduction of anions over a mercury electrode

Periodical : Zhur. fiz. khim. 29/10, 1827-1846, Oct 1955

Abstract

The reduction of numerous anions was investigated on a mercury drop and amalgamated rotating cathodes. It was found that anions begin reducing at sufficiently negative values of the potential when the electrode surface is charged negatively (relatively difficult reducible anions) and that the anion reduction begins at such potentials at which the electrode surface is positively charged (easily reducible anions). The effect of foreign cations

Institution:

Moscow State University im. M. V. Lomonosov

Submitted

February 15, 1955

Card 2/2 Pub, 147 - 11/21

Periodical: Zhur. fiz. khim. 29/10, 1827-1846, Oct 1955

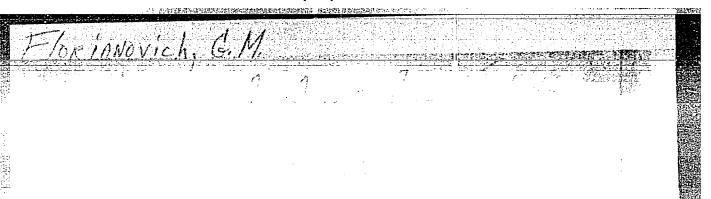
Abstract: on the anion reducing process was investigated and it was established that the cations affect the magnitudes of minimum currents and increase same. The effectiveness of the cations depends upon their charge and concentration. Thirty-four references: 7 Czech., 6 USA, 18 USSR, 1 Fr.

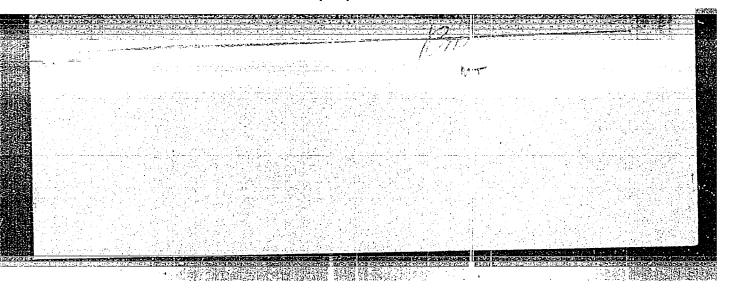
and 2 Eng. (1932-1954). Table; graphs; drawing.

KEOMCHENKO, Gavriil Platonovich; VOVCHENKO, G.D., prof., red.; FLORIAMOVICH, G.M., red.; GEORGIYEVA, G.I., tekhn.red.

[Manual of laboratory experiments in general chemistry] Laboratornyi praktikum po obshchei khimii. [Moskva] Izd-vo Mosk.univ., 1957. 181 p. (MIRA 10:12)

(Chemistry-Laboratory manual)





FLORIANOVICH, G. M.

"Wirkung I der Legierungsstoffe des Stahles auf die Passivie-rung in Sauren Losungen."

paper submitted for the Congress on Corrosion, Endapest, 24-30 Sept 1958. Karpow Physikalisch-Chemische Anstalt, Moscow.

KOLOTYRKIN, Ya.M., prof.; FLORIANOVICH, G.M., kand.khim.nauk

Passivation of metals. Khim. nauka i prom. 3 no.4:483-491 '58.
(MIRA 11:10)

(Blectrolytic corrosion) (Passivity (Chemistry))

#### CIA-RDP86-00513R000413330004-3 "APPROVED FOR RELEASE: 06/13/2000

Florianovich, G. M., Kolotyrkin, Ya. M., SOV/20-120-4-43/67 AUTHORS:

Smirnova. N. K.

The Influence of Nickel Upon the Electrochemical and Corrosion TITLE:

Behavior of Steel (Vliyaniye nikelya na elektrokhimicheskoye

i korrozionnoye povedeniye stali)

Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 4, PERIODICAL:

pp. 845 - 848 (USSR)

In this paper the influence exercised by nickel on the behavior ABSTRACT:

of steel in the domain of passivation is investigated by means of the potentiostatic method of measuring polarization curves; the experiments were carried out with steels of the types Kh22T, Kh 22N14T and KK 2CN6ST. . Measurements were carried out at 20° in a 0,1 n-solution of H2SO, in a nitrogen atmosphere.

The velocity of the dissolution of steel Kh 22T depends on the potential in rather a complicated way. The behavior of steel at different potentials is described in short. The minimum velocity of steel dissolution is within the potential range of from 0 to 0,500 V. Also the other types of steel investigated

showed similar dependence of dissolution velocity on the Card 1/3

CIA-RDP86-00513R000413330004-3"

**APPROVED FOR RELEASE: 06/13/2000** 

The Influence of Nickel Upon the Electrochemical and SOV/20-120-4-43/67 Corrosion Behavior of Steel

potential. The addition of nickel decreases the dissolution velocity in all potentials that are more negative than + 1,200 V. The velocity of dissolution systematically decreases within the range of passivation in the case of an increase of the nickel percentage in steel. The addition of nickel has almost no influence upon the position of the curve which characterizes the over voltage of hydrogen. To convert steel into the passive state and thus also to increase its resistance to corrosion the stationary potential in the case of absent external polarization must be shifted towards the positive side, up to values which are more passive than the passivation potential. Such a shift can be brought about by the increase of the over voltage of the anodic reaction and also by increase of the total velocity of the depolarizing cathodic reactions. The authors decreased the over voltage of hydrogen by facing a small quantity of platinum upon the steel surface. Similar results were obtained by introducing atmospheric oxygen into the solution. The degree of passivation of the surface of a steel with given composition is a function of the potential and in the cases described does not depend on the method of maintaining this potential. A shift

Card 2/3

The Influence of Nickel Upon the Electrochemical and SOV/20-120-4-43/67 Corrosion Behavior of Steel

of the potential by a change in the chemical composition of the steel can considerably change the degree of its passivation with a given potential. In conclusion, the authors thank A.A.Babakov for having placed the steel samples at their disposal. There are 1 figure, 1 table, and 4 references, 3 of which are Soviet.

which are Soviet

PRESENTED: January 10, 1958, by A.N. Frumkin, Menber, Academy of Sciences,

USSR

SUBMITTED: October 9, 1957

1. Steel--Corrosion 2. Steel--Electrochemistry 3. Steel--Passivity

4. Nickel--Electrochemistry

Card 3/3

FRUMKIN, A.N., akademik, otv.red.; YESIN, O.A., prof., red.; ZHDANOV, S.I., red.; KABANOV, B.N., prof., red.; KOLOTYRKIN, Ya.M., dokt.khim. nauk, red.; LOSEV, V.V., red.; LUKOVTSEV, P.D., prof., red.; SOLOV'YEVA, Z.A., red.; STENDER, V.V., prof., red.; FLORIANOVICH, G.M., red.; YEGOROV, N.G., red.izd-va; PRUSAKOVA, T.A., tekhn.red.

[Proceedings of the 4th Conference on Electrochemistry, October 1-6, 1956] Trudy 4-go soveshchaniia po elektrokhimii, 1-6 oktiabria 1956 g. Moskva, Izd-vo Akad.nauk SSSR, 1959. 867 p. (MIRA 12:5)

1. Soveshchaniye po elektrokhimii, 4th, Moscow, 1956. (Electrochemistry)

FLORIANOVICH, G.M. 36 SOV/5256 PHASE I BOOK EXPLOITATION Gerasimov, Valentin Vladimirovich, ed., Candidate of Chemical Sciences. Korroziya reaktornykh materialov; sbornik statey (Corrosion of Nuclear-Reactor Materials; a Collection of Articles) Moscow, Atomizdat, 1960. 284 p. 3,700 copies printed. Ed.: A.I. Zavodchikova; Tech. Ed.: Ye.I. Mazel'. PURPOSE: This collection of articles is intended for mechanical and metallurgical engineers as well as for scientific research workers concerned with the construction of nuclear reactors. COVERAGE: The water corrosion of various types of stainless steel and alloys under high pressures and temperatures is investigated from the point of view of the use of these materials for the construction of nuclear reactors. Attention is given to the following: the use of oxygen for protecting steel against corrosion, the behavior of steel in high-temperature Card-1/8-

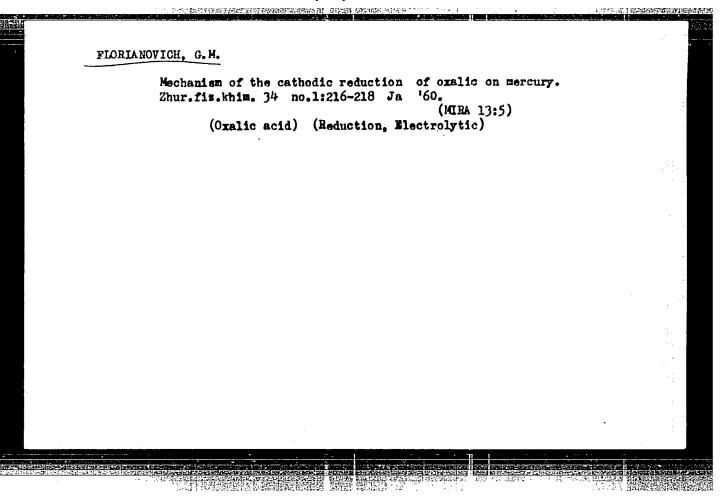
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	Corrosion of Nuclear- (Cont.) SOV/5256		
	water with various compositions, factors of metal stress corrosion, intergranular corrosion, the mechanism of corrosion cracking, and the corrosion resistance of aluminum and zirconium alloys. Conclusions based on test results are included. No personalities are mentioned. Most of the articles are accompanied by references. Of 238 references		
	97 are Soviet.	. i	
	TABLE OF CONTENTS:		
	Foreword  PART I. METHODS OF INVESTIGATING WATER  AND ELECTROCHEMICAL CORROSICN AT  HIGH TEMPERATURES AND PRESSURES  5		
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		Gerasimov, V. V., A.I. Gromova, A.A. Sabinin, and E.T. Shapovalov. An Autoclave for Electrochemical Investigations	16	
	•	Tolstaya, M.A., S.V. Bogatyreva, and G.N. Gradusov. Removing Corrosion Products From Steels After Tests in Water at High Temperatures	20	
		PART II. EFFECT OF THE WATER COMPOSITION ON THE CORROSION OF CONSTRUCTIONAL MATER	N RIALS 29	
	į	Kolotyrkin, Ya. M., G. M. Florianovich, P.S. Petrov, N.K. Smir and L. M. Vyazankin. On the Application of Oxygen for Protecting Steel Against Water Corrosion at High Temperatures	rnova, g 29	
ř		Gerasimov, V. V., and A. I. Gromova. Effect of the Composition	i	
		Card 3/9		
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FLORIANOVICH, G. M., KOLOTYRKIN, Ya. M., BUNE, N. Ye., Moskva:

"The Mechanism Action Of Oxydizing Agents As Corrosion Inhibitors Of Nickel And Stainless Steel".

report submitted for the European Symposium on Corrosion Inhibitors, Ferrara Italy, 29 Sep-1 Oct 1960.



67946 12, 8300 S/020/60/130/03/028/065 Florianovich, G. M., Kolotyrkin, Ya.M. B004/B011 AUTHORS: Influence of the Chromium Content on the Electrochemical and TITLE: Corrosive Behavior of Iron Chromium Alloys Doklady Akademii nauk SSSR, 1960, Vol 130, Mr 3, pp 585-588 PERIODICAL: (USSR) The investigations conducted in the authors! laboratory (Ref 6) showed that the potentiostatic method allows an ob-ABSTRACT: jective evaluation of the electrochemical and corrosive behavior of metal alloys. This allows the evaluation of the anticorrosive behavior at different potentials and different (active, passive) surface states. In the present paper the authors used the above method to investigate the behavior of Fe-Cr alloys in 0.1 N  $\mathrm{H}_2\mathrm{SO}_4$  in nitrogen atmosphere. The desired potential was kept constant by means of an electronic potentiostat. The concentration of the corrosion products was determined colorimetrically, in some cases also gravimetrically. The authors investigated pure Armco- and Hilger iron, alloys prepared from Armco-Fe with pure Cr (0.1-35% Cr) and alloys Card 1/3

67946

Influence of the Chromium Content on the Electrochemical and Corrosive Behavior of Iron - Chromium Alloys

S/020/60/130/03/028/065 B004/B011

of the types 12Kh6, 1Kh13, Kh17, Kh28, containing up to 0.4% Ni in addition to Cr. The results are graphically given in figures 1,2. The curves reveal several sections depending on the potential: active dissolution, first limiting current, passivation, overpassivation, second limiting current, new activation. The authors found the following: the dissolution rate of pure passive Fe is lower by only one order of magnitude than its dissolution rate with limiting current. Alloys with up to 4% Cr are not passivated. Alloys with 4 - 13% Cr exhibit no passivation and no second limiting current. In alloys with more than 13% Cr there occurs no first limiting current. Their dissolution rate in the passive state is lower by three orders of magnitude than that of alloys with less than 13% Cr. In the potential section of the second limiting current and of the active dissolution, however, there occurs a rapid dissolution in the case of a Cr content rising above 13% (Table 1). These results do not agree with the data contained in references 7,8, but are confirmed by data offered by A. M. Sukhotin and E. I.

Card 2/3

67946

Influence of the Chromium Content on the Electrochemical and Corrosive Behavior of Iron - S/020/60/130/03/028/065 Chromium Alloys

Antonovskaya (Ref 10) and M. Pražek (Ref 11). It follows that the composition of an alloy is by no means a clear sign of its corrosive behavior, but the dissolution rate is a factor of the potential. The authors thank L. A. Vanyukova and A. A. Babakov for the alloys supplied and for their advice. There are 2 figures, 1 table, and 11 references, 4 of which are Soviet.

ASSOCIATION:

Nauchno-issledovatel'skiy fiziko-khimicheskiy institut im. L. Ya. Karpova (Scientific Research Institute of Physical Chenistry imeni L. Ya. Karpov)

PRESENTED:

October 1, 1959 by A. N. Frumkin, Academician

SUBMITTED:

September 24, 1959

Card 3/3

L 13701-63 EMP(q)/EWT(m)/EDS AFFTC/ASD ID

ACCESSION NR: AP3003520 S/0020/63/151/001/0144/0147 55

AUTHORS: Florianovich, G. M.; Koloty\*rkin, Ya. M.

TITLE: Passive characteristics of alloys on an iron base

SOURCE: AN SSSR. Doklady\*, v. 151, no. 1, 1963, 144-147

TOPIC TAGS: galvanostatic method, potentiostatic method, Fe, Cr, critical current

ABSTRACT: Galvanostatic and potentiostatic methods were employed to study the influence of chrome content on the critical current (1 or and potential (vp) in an Fe-Cr alloy. An increase in chrome in the alloy causes vp to tend towards negative values. When the chrome content is over 20%, vp is constant. A rise in chrome content to 20-27% is followed by a marked decrease in 1 or. However, a further rise in chrome content causes in to increase appreciably. The paper was presented by Academician A. N. Frunkin on 12 March 1963. Orig.

ASSOCIATION: Physicochemical Inst.

Cord 1/2/

S/020/63/148/005/020/029 B190/3102

AUTHORS:

Kolotyrkin, Ya. M., Golovina, G. V., Florianovich, G. M.

TITLE:

Depassivating action of halide ions on alloys based on iron

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 148, no. 5, 1963,

1106-1109

TEXT: In order to obtain reliable data on the pitting effect arising on Fe-Cr and Fe-Cr-Ni alloys in electrolyte solutions to which halide ions were added, all factors were investigated that affect the transition ability of these alloys from a passive into an active state due to the presence of halide ions. This ability is characterized by the activation potential  $\psi_a$  measured from either the anodic polarization curves or the variation of potential with time for constant anodic current. In the latter case  $\psi_a$  depends on the current density according to the Tafel law.  $\psi_a$  was also measured in dependence on the pH at constant halide ion concentration and on the latter at constant pH, and finally on the Cr

Card 1/3

S/020/63/148/005/020/029
Depassivating action of halide ions ... B190/B102

and Ni contents in the alloy. These measurements were made mainly the steel of type 1X13 (1Kh13) in sulfuric acid solutions. When  $\psi_a$  is plotted versus  $c_{SO_4^2/C_{Hal}}$  with constant  $c_{Hal}=0.01$ , it may be seen that  $\psi_a$  increases exponentially with increasing  $SO_4^2$  concentration for both  $Cl^2$  and  $Br^2$  ions. The remaining results are to be seen from the figures. There are 4 figures.

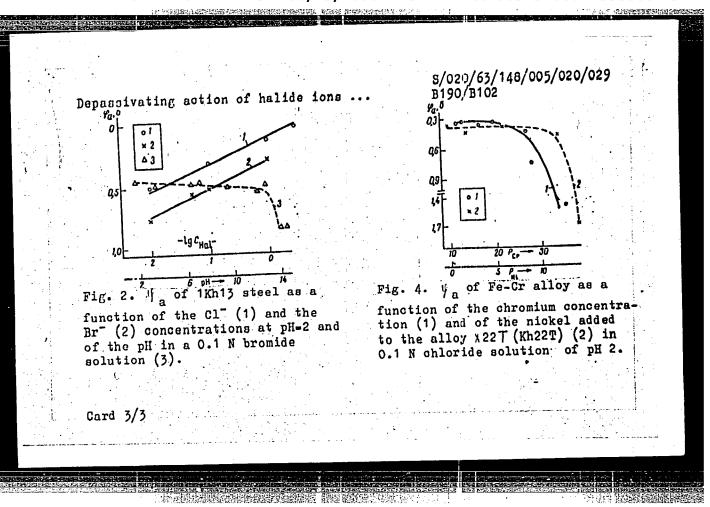
ASSOCIATION: Fiziko-khimicheskiy institut im. L.Ya. Karpova (Physico-

chemical Institute imeni L.Ya. Karpov)

PRESENTED: October 16, 1962, by V.A. Kargin, Academician

SUBMITTED: October 12, 1962

Card 2/3



FLORIANOVICH, G.M.; KOLOTYRKIN, Ya.M.

Passivation characteristics of iron-base alloys. Dokl. AN SSSR
151 no.1:144-147 J1 '63. (MIRA 16:9)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Predstavlenc akademikom A.N.Frumkinym.

(Iron alloys) (Passivation)

FLORIANOVICH, G. M., KOLOTTEKIN, Ya.M.

Mechanism of dissolution of iron alloys with in caromium sulfuric acid.

Dekl. an Shiff 157 no. 2x222-125 Jl 164. (MIRA 17:7)

1. Piziko-khimichoskiy institut imeni Karpeva. Predstavleno akademikom A.N.Prunkinym.

CESSICH NR: AL	m)/EWL(d)/EWP(t)/1 4042213		8/00::0/6	+/124/005/0155	/0425	
MTHOR: Florian	wich, G. M.; Kolo	ty*rkin, Ya. M.			ä	
ITIE: On the m	chemism of dissol	ution of iron-c	hronium s.Lloy	s in sulfurio	acio.	
reaa na :Edhuo	. Doklady*, v. 157	, no. 2:, 1964,	422-425			
OFIC TAGS: iro	i chromium alloy, ization	metal corresion	t, passivition	- 2 m		
purface atoms of mechanism), vinc	recently it was the metal with the plays an importa- tances is practice.	ant role during	interact on o	of metals with a	drec-18 69999	
colutions of ele situation, nower anvious of the r	etrolytes. The resulted in regularities of di	econsideration of in temperature ph	of this views on-chronism al enomena vers	oint. In the lloys in acid liccovered whi	investi = { solu- ch in .asclu-	e usraji <u>e</u>
	ained require the					

L 12973-65 ACCESSION NR: AP4042213 conclusions regarding the nature of particles which intermet with metal atoms during dissolution by chemical mechanism. Such particles may be water molecules and the process will proceed by the equation: Me + n  $H_2O - Me(OH)_n + n/2H_2$  (slow stage) with subsequent dissolution of  $Me(OH)_n$  in the acid:  $Me(OH)_n + n H - Me^{n+} + n H_2O$ This mechanism corresponds to the results according to which the temperature increase of smodic dissolution currents of Fe-Cr alloys in HoSOk near the passivation potential takes place only to a certain critical temperature. Above this temperature currents decrease. It is shown that chemical dissolution may be dis-Livel by mutals of different characteristics and not only in alkaline, but also in acid solutions of electrolytes. It follows from this study that in making a choice of methods for the protection of metals and alloys from corrosion it is also necessary to take into account the possibility of deviation of their behavior from the behavior described by the laws of electrochemistry. Specifically it is shown that in a number of cases the cathodic pretection of metals is limited. In order Take more definite conclusions regarding the mechanism of chemical reaction it is personary to obtain additional data, especially on the effect of pH and anionic composition of the dissolution process. Orig. art. has: 3 figures.

L 12973-65			
ACCESSION NR: AP4042213	dcheskly institut in. L. Ya	. Karpove (Institute :	of Physico
Chemistry) SURMITED: 26Fob64	The state of the s	EUCE: 00	
BUB CODE: MM 順	no ref 60v: 004	officer: 600	
Cerd 3/3			

KOLOTYRKIN, Ya.M.; FLORIANOVICH, G.M.

Chemical mechanism of the dissolution of iron, chromium, and their alloys in sulfuric acid. Zashch.met. 1 no.1:7-12 Ja-F \*65. (MIRA 18:5)

1. Nauchno-isoledovatel\*skiy fiziko-khimicheskiy institut imeni Karpova, Moskva.

شنارات الساكانات		WP(t)/EMP(b) IJP(c)		
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UTHOR: Gold	ovina, G. V.; Florianov	rich, G. K.; Kolotyrkin,	Ya. M. 2 5	
ITLE: Inves	stigation of the kineting alloys by halide ions	les of the initial stages	of the activation of	
OPIC TAGS:	ktrokhimiya, v. 1, no. iron, chromium, alloy	, halogen, passivation	o that the relation-	
hip between in the rate ower the ra	the dissolution rate of change in the potent te of change in potent	ion occurs slowly in time for the passive metal and tial during the process call the more deeply will assolution rate for the men the initial one. Such	i the potential depends of measurement: the the metal be passivated atal at each given po-	
ible to fol	low not only the rate	of passivation of the all ide ions. This method wa inetics of the initial s	low but also the rate or as then used to study th	l <b>e</b>
Card 1/2			1/2	

. 48971-65 ACCESSION NR: AP5007747			
ion on preliminarily passised with the help of which in the potential of the all est and calculated results the processes of activation	anode polarization curves oy from 0.01 to 64 v/sec. provided confirmation of t	cillographic polarograph was were taken at rates of change. The samisfactory agreement of the independent occurrence of tial smages of the activation figures, 6 equations.	
ASSOCIATION: Fiziko-khimid Institute)	heskiy institut ineni L./Ya	. Karpıva (Physical-Chemical	
	的复数形式 化甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	/장면 공도 도착 하십시다. 그런데 그 그리는 하는 장상이는 하지 않는 사용하는 하지않아 취임했다.	
Submitted: 15Ap=64	ENCL: 60	SUB CODE: HM, GC	
UBMITTED: 15Ap≥64 O REF SOV: 004	ENCL: 00	SUB CODE: HH, GC	
		SUB CODE: HH, GC	

DEMBROVSKIY, M.A.; FLORIANOVICH, G.M.

Feasibility of using a scintillation Y-spec:rometer for the determination of low rates of steel corrosion. Zashch.met. 1 no.1:115-118

Ja-F '65. (MIRA 18:5)

l. Nauchno-issledovatel\*skiy fiziko-khimicheskiy institut imeni Karpova.

L 58369-65 EWG(j)/EWT(m)/EWP(w)/EF IJP(c) ID/WB ACCESSION NR: AP5011358	IIR/0365/6!	/E#P(b) Pr-4/Ps-4 /001/002/0156/0160
AUTHOR: Floriamovich, G. M.  TITLE: The effect of temperature or  SOURCE: Zashchita metallov, v. l, r  TOPIC TAGS: passivation, metal physical	no. 2, 1965, 156-160 sical property, metal che	y of alloys
ABSTRACT: The anodic dissolution k nickel were studied in aqueous sulf was shown that, for this system, the may pass spontaneously from the act nickel content of the alloy is increase in pH and introduction of ox tigal temperature for self-passivate explain the self-passivation of the	inetics of alloys of irenturic acid solutions at we ere is a critical temperative to the passive status eased, the critical temperature of the critical temperature of the critical temperature.	with chromium and arious temperatures. It ature at which the alloy . As the chromium and serature decreases. In-
has: 5 figures.  Card 1/2		

1 58369-65 ACCESSION NR: AP5011358 ASSOCIATION: Nauchno-issledovatel skiy fi				
Karpova (Physicochemical Sci	entific Resear	ci Institute	SKIY HISCHUL IB. IA IA	
SUBMITTED: 11Nov64 .	ENCL:	<b>)</b> 0	SUB CODE: HM	
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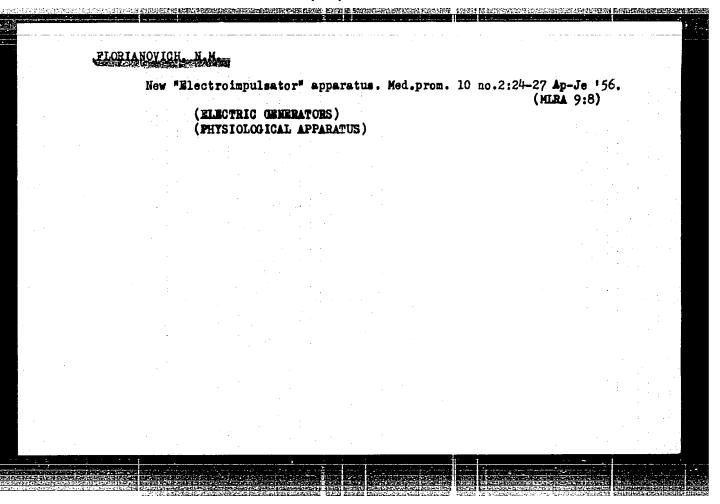
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GOLOVINA, G.V.; FLORIANOVICH, G.M.; KOLOTYRKIN, Ya.W.

Causes of the inhibiting effect of halogen ions on the dissolution of iron and steel in sulfuric acid. Zashch. met, 2 no.1:41-45
Ja-F \*66. (MIRA 19:1)

l. Nauchno-issledovateliskiy fiziko-khimich@skiy institut imeni L.Ya. Karpova, Moskva. Submitted August 31, 1965.

ACC NR. SOURCE CODE: AUTHOR: Kolotyrkin, Ya. M. (Professor; Doctor); Florianovitch, ORG: L. Ya. Karpova Institute for Physical Chemistry, Moscow TITIE: Temperature-dependence of the dissolution kinetics and of the passivation of retals and alloys. Part 2: Temperature-dependence of the dissolution mechanism SOURCE: Zoitschrift fur physikalische Cherde, v. 231, no. 3-4, 1966, 145-150 TOPIC TAGS: reaction mechanism, chemical kinetics, cathode polarization, iron, chromium, iron alloy, chromium alloy, sulfuric acid, to merature dependence, corrosion ABSTRACT: Cathodic and anodic polarization curves were obtained for iron, chromium, and alloys of these in sulfuric acid at various temperatures, and the curves were compared with those corresponding to the relation between potential and dissolution rate, to elucidate the temperaturedependence of the dissolution kinetics. It was shown that both electrochemical and chemical processes are involved in the dissolution mechanism, and that the mechanism can be steered to favor either way by appropriate adjustment in the reaction parameters. The principal parameters involved are potential and temperature. The significance of the findings in corrosion research was discussed. Orig. art. has: 5 figures. [JPRS: 36,464] SUB CODE: 20 SUBM DATE: 21Aug66 / ORIG REF: 003



+ togin wevich, NM.

MISCELLANEOUS

"An Apparatus for Electrical Stimulation of Respiration", by N.M. Florianovich, All-Union Scientific Research Institute of Medical Instruments and Equipment, Meditsinskaya Promyshlennost' SSSR, No 5, May 1957, pp 49-51.

An apparatus for electrical stimulation of respiration is described by the author. It has been devised by the All-Union Scientific Research Institute of Medical Instruments and Equipment, and is based on the principle of electrical stimulation of the various groups of muscles to produce their contraction and relaxation.

The article is accompanied by a photograph and a diagram.

1. VESESCYUZNYY Nauchno-issLedountel'skiy institute meditsinskogo instrumentaria i obcrudovaniya Card 1/1 -51-

The SEL-2, new model of the automatic erythrocyte counting apparatus. Nov. med. tekh. no.2:20-24 '62.

(MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i oborudovaniya.

FLORIANSKY, O.

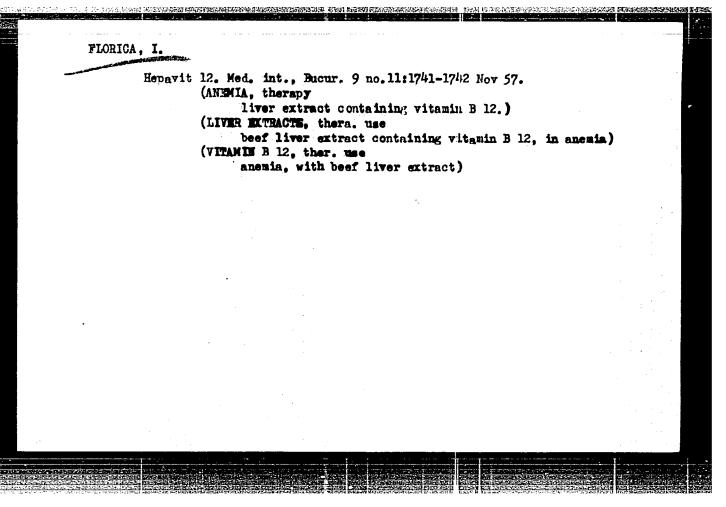
Automatic electro-presure control. p. 625. (STROJIRENSTVI, Vol. 7, No. 3, Aug 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

FLORICA, I.

More help for women's committees. p. 4. CONSTRUCTORUL. (Ministerul Constructiilor si Industriei Materialelor de Constructii si Uniunea Sindicatelor de Salariati din Intreprinderile de Constructii) Bucuresti. Vol. 7, no. 293, Aug. 1955.

So. East European Accessions List Vol. 5, No. 9 September, 1956



FLORICAN, P.

R/003/60/011/005/018/023 A125/A026

AUTHOR:

None given

TITLE:

Meeting of the Chemical Industry

PERIODICAL:

Revista de Chimie, 1960, Vol. 11, No. 5, pp. 299 - 302

TEXT: In the meeting on "Radioisotopes in Research and Chemical Industry", held on March 7 - 8, 1960, organized by Sectia Chimie - Comisia de Radiochimie (Chemical Section - Radiochemical Commission) led by Dr. G. Ioanid and opened by lecturer I. Drimus, President of the Chemical Section, and by Professor, Academician S. Titeica, the following papers were read: "Production of Radioactive Iron From Com-Isotopes in Rumania" by C. Chiotan; "Production of Radioactive Iron From Complex Combinations by Szillard-Chalmers Reactions" by C. Chiotan and A. Genunche; "Gammagraphical Sources Produced at the Institute of Nuclear Physics" by L. Ciplea, P. Florican and M. Oncescu; "Principles for Planning and Organization of the Radiochemical Laboratories" by Al. Buşila; "Protection of the Organism Atgainst the Noxious Action of Ionizing Radiations With the Aid of Some Chemical Compounds" by Gh. Furnica; "Decontamination Within the Laboratories Operating With Radioactive Isotopes" by I. Gaspar and D. Şerban; "Application of Radioac-

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R/003/60/011/005/018/023 A125/A026

Meeting of the Chemical Industry

tive Isotopes in Chemical Industry" by G. Ioanid; "Achievements at the I.F.A. in the Field of the Radiation Chemistry" by D. Stefanescu; "Ionizing Radiation, Initiator of the Oxidation Reaction of Paraffin by G, Ionnid, Al. Dragut, I. Drimus, A. Stoian and V. Dumitrescu; "Polymerization and Grafting Operations Under the Influence of Ionizing Radiations, by B. Hlevca, F. Dragnea and M. Dinescu; "Sterilization of Medicines With Gamma Radiation" by D. Arizan, P. Adrian and A. Constantinide; "Synthesis of Medicines by Traced Atoms" by D. Arizan, P. Adrian and A. Constantinide; "Application of Radioactive Isotopes in Chemical Research" by S. Ionescu; "Achievements in Radiochemistry at the Chemical Institute of the Rumanian Academy, Cluj Affiliation and at the Department of Anorgan ic Chemistry of the Babes-Bolyai University" by R. Ripan, Cr. Marcu and N. Pascu: "Tempering Processes in the Szillard-Chalmers Effect" by T. Costea; "Reactions of Isotopic Exchanges in Heterogeneous Medium" by I. Gainar; "Contributions to the Study of the Ionic Exchange on Cationic Resins. Utilization of Organic Solvents as Eluant Agents in the Cationic Exchange" by O. Constantinescu; "Works of the Researchers at the I.F.A. With Regard to the Utilization of Radioactive Isotopes in Analytic Chemistry" by T. Nascuțiu; "Radiochemical Determinations in Ferrous Metallurgy" by Gh. Dumitrescu; and "Radiometric Measurings in Chemical Industry" by Gh. Ioanid.

Card 2/2

CHIOTAN, C.; CIPLEA, L.; FLORICAN, P.; ONCESCU, N.

Prime sources of Co 60 for gammagraph produced at the Institute of Atomic Physics of the Rumanian Academy. Studii cerc fiz 11 no.3: 804-805 '60.

1. Institutul de fizica atomica Bucuresti.
(Rumania---Muclear physics) (Cobalt), (Radioisotopes)

- 1. VINOKUROV, V. and FLORICH, F.
- 2. USSR (600)
- 4. Sakhalin Coal
- 7. For the black stone. Znan.sila no. 11, 1952.

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

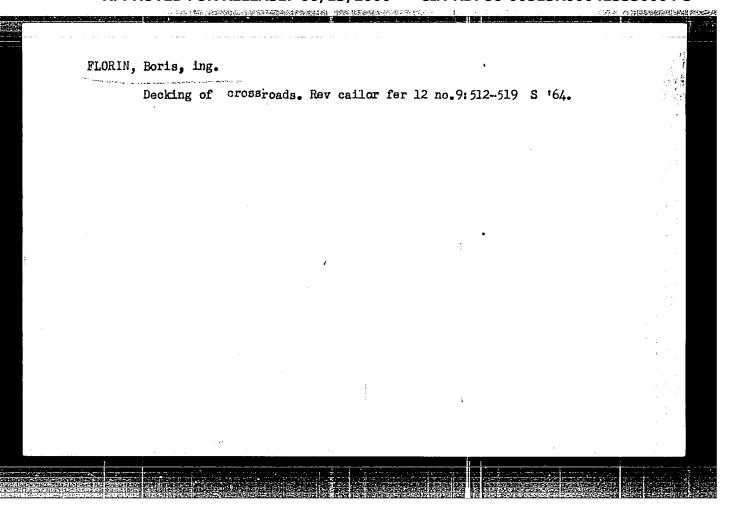
FLORIKXAN, A.K., Cand. Med. Sci., (diss) "Effectiveness of thoracoplasty and its effect on the respiratory and circulatroy functions," Kharkov, 1961, 16 pp (Kharkov State "edical Institute) 200 copies (KL-Supp 9-51, 193)

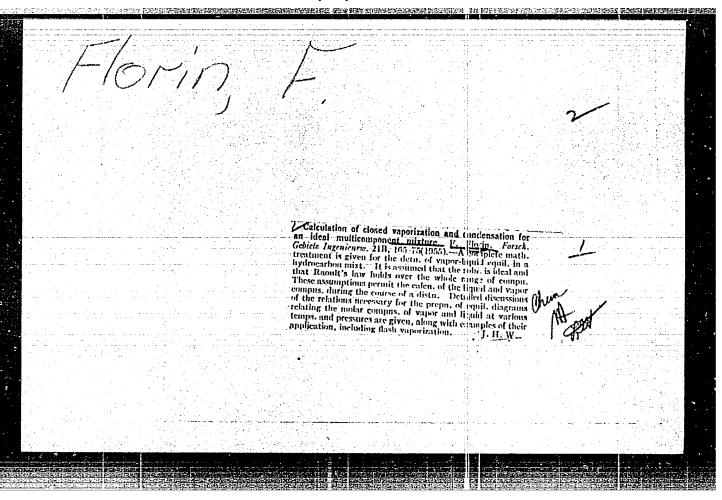
FLORIN, B.

Method applied in the maintenance and repair of wooden ties. p.127.

REVISTA CAILOR FERATE. (Calle Ferate Romine) Bucuresti, Rumania Vol. 7, no. 3, Mar. 1959.

Monthly list of Eastern European Accession Index (EEAI) IC vol. 8, No. 11 November 1959 Uncl.





FLORIN,I. COUNTRY USSR CATEGORY Pharmacology and Toxicology. Cholinergic Agents : RZhBiol., No. 5 1959, No. 23147 ABS. JOUR. Morin, I. AUTHOR Chair of Forensic Medicine, 1st Leningrad INST. Change of the Activity of Cholinesterase of the TITLE Cerebrum and Muscles in Experimental Poisoning by Phosphacol Sb. tr. kafedry sudebn. med. 1-y Leningr. med. ORIG. PUB. : in-t, 1958, vyp. 2, 191-194 ABSTRACT In experiments on mice, phosphagol in a dose of Old mg/kg depressed cholinesterase of the brain and muscles, respectively, up to 61.9 and 55.7%, in a dose of 1 mg/kg up to 31.5 and 34.9%, and in a dose of 10 mg/kg up to 96.6 and 99.1% of the initial activity .-- From the author's summary "Modical Institute Card: 1/1

### "APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413330004-3

FLORIN, K.P.

137-58-1-1242

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 167 (USSR)

AUTHOR:

Morin, K.P.

TITLE:

Increase in Resistance to Scale and Coarsening of Grain in Irons by Liquid Calorizing (Povysheniye okalinostoykosti i rostoustoychivosti chugunov metodom zhidkogo alitirovaniya)

PERIODICAL: Tr. Mosk. in-ta khim. mashinostr., 1957, Vol 12, pp 85-94

ABSTRACT:

Experiments in liquid calorizing (C) in a bath of pure Al in which a flux consisting of (%) NaCl 35, KCl 35, ZnCl 20 and Na<sub>3</sub>Al F<sub>6</sub> 10 was applied to the face have been conducted. First the first two components were charged, and the others were added as the former fused. The optimum temperature was 700°C, holding was for 20 min, and the thickness of the layer 0.10-0.15 mm. The specimens tested were: steels 10 &45, gray iron, high-strength iron (HI) (with spheroidal graphite). The characteristics studied were: the scale resistance in air and the resistance to grain coarsening at 700°, 800°, 900° for 100 hours each, and 1000° for 160 hours (by cycles at 20 hour intervals). The best results were yielded by HI: absence of oxidation and coarsening of grain by 80 to 84 percent smaller than prior

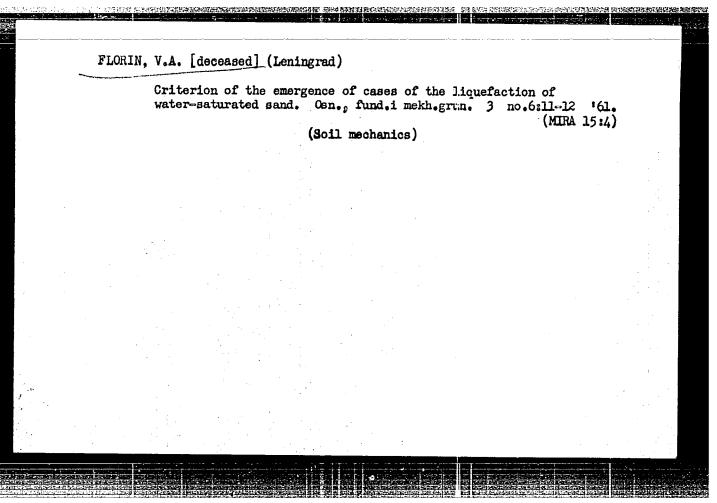
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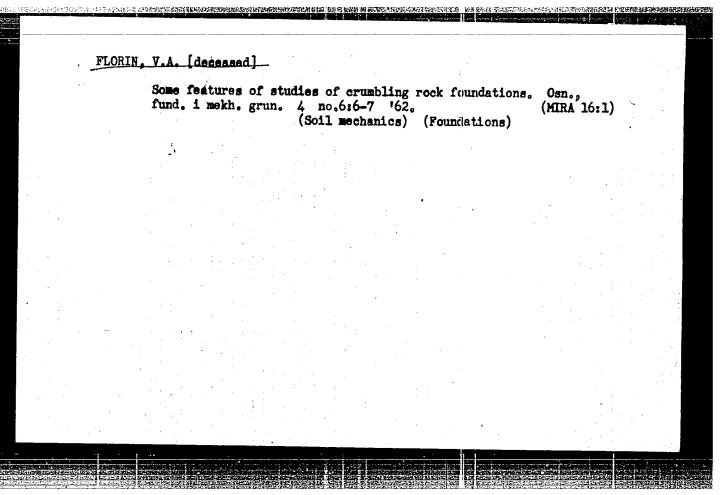
Increase in Resistance to Scale (cont.)

to C. After C, HI and steel also presented high corrosion resistance in H<sub>2</sub>S and SO<sub>2</sub> at 700° for 10 hours. The Obj at 18° and 900° of annealed and unannealed calorized irons was the same as prior to calorizing.

1. Steel-Liquid calorizing
2. Iron-Liquid calorizing
3. Steel-Scale

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88325

R/002/60/000/012/003/003 A125/A026

17.2550

AUTHOR:

Florin, Z., Engineer

TITLE:

1960 - A Year of Success of the Soviet Astronautics

PERIODICAL:

Stiinta și Tehnica, 1960, No. 12, pp. 38 - 39

TEXT: After reviewing all artificial satellites and space ships launched by the Soviets during the last three years, the author briefly describes their scientific purpose. According to Professor Blaganravov, the third space probe launched on December 1, 1960, was equipped with a large number of scientific instruments to study the following two groups of problems: medical-biological experiments and investigations of the physical properties of a wide zone of space. The orbit of the third space probe and a perigee of 188 km and an apogee of 260 km. The initial orbiting speed was 88 min. By the third space probe, Soviet scientists have conducted many space-medical and space-biological experiments, e.g. on the influence of space factors such as weightlessness, radiation, thermal effects, etc.; on the organism and later heredity. At the same time, the operation of all types of devices and systems necessary for life during the flight has been checked. The behaviour of the animals in the third space probe has been watched through TV.

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88325

1960 - A Year of Success of the Soviet Astronautics

R/002/60/000/012/003/003 A125/A026

According to Professor, Doctor, I.N. Maiskiy, the data obtained on December 1 - 2, will permit the drawing of some conclusion on the problem of metabolism during space flight and its influence on heredity, and the development and partition of cells in the state of weightlessness. Thus, many data have been obtained regarding space flight of man in the near future. On the basis of this last experiment, the USSR will possibly soon launch a huge ship with animals on board, to study the reentry problem. During the same time, scientists will finish the analysis of the medical-biological data obtained by the past space probes. Other probes will possibly be launched to the moon, to Venus and Mars. There are 2 figures.

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RUM/2-59-12-10/37

AUTHOR:

Florin, Z., Engineer

TITLE:

Materials for Space Ships

PERIODICAL:

Stiință și Tehnică, Seria a II-a, 1959, Nr 12,

pp 14 - 15 (RUM)

ABSTRACT:

The author describes a hypothetical flight into space and the materials used in the construction of a space vehicle of the future. The very high friction temperatures produced at the surface of a space vehicle are cooled by a special liquid pumped into the covering which is of honeycomb structure. The fuselage covering the descriptions of the stripless at the surface of the space of the stripless at the surface of t ing is made of stainless steel containing 15% chromium, 7% nickel and 2.5% molybdenum which has a resistance of 9 t/sq cm at a temperature of 5400, allowing a flight speed of M=4, without cooling. The wing covering is made of an alloy containing 99.5% molybdenum and 0.05% titanium which has a resistance of 6.18 t/sq

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Materials for Space Ships

RUM/2-59-12-10/37

cm at a temperature of 870°. The pointed nose of the rocket plane is made of an aluminum-chromium-silicon alloy, which proved to be resistant to a temperature of 1,420° C. Plastics have been successfully used in the construction of rocket engines, jet engines, pipes and insulations. The rotor of the reserve engine's turbine made of "Asbestophenol" resisted for 5 min a temperature of 1,100° C and 40,000 rpm. The blades of this turbine made of pressed phenolic resins withstood a temperature of 2,550° C for 2 min. The scientific apparatus containers and the fuel tanks are made of organic glass by centrifugal casting. Having a surface of 3-4 sq m, a thickness of approx 12 mm and a specific gravity of 1.77, the containers resisted a pressure of up to 1.2 t/sq cm. The rudders and the aerodynamic brakes of the rocket plane are covered with a 50-mm-thick "nitric-boron polymer" layer resistant to more than 800° C. Highly resistant ceramic materials have been obtained by increasing the

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Materials for Space Ships

RUM/2-59-12-10/37

alumina content of clay to more than 84%. By increasing the alumina content to 90%, super-resistant corundum ceramics are obtained which melt at a temperature of

more than 2,000 and are resistant to acids, including hydrofluoric acid. Various metal-ceramic materials have been developed such as special steel combined with molybdenum and covered with graphite sheets glued with phenolic resins. This material used for the construction of exhaust nozzles in rocket engines resisted a temperature of 2,000° C. The resistance of honeycomb structures and monoblock panels has been separately studied. In case of honeycomb structures the covering is fixed by special resins to a metal network made of alloyed steel sheets. Cr-Ni-Mo steel is used for the construction of the honeycomb structure and Mo-Ti steel for the wing covering. The rudders of the rocket plane are made of monoblock panels, cast of the "X 2,020" alloy (lithium and aluminum), resisting a temperature of 450° C. The author describes the construction of the "Mirnaya" space

Card 3/5